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APPLICATION NO. FILING D		ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/617,229		07/11/2003	Young-Chan Kim	1293.1854	2343	
21171	7590	90 04/10/2006		EXAMINER		
STAAS & 1	HALSEY	/ LLP	RAHMJOO, MANUCHER			
SUITE 700 1201 NEW	YORK AV	VENUE, N.W.	ART UNIT	PAPER NUMBER		
WASHING			2628			
				DATE MAILED: 04/10/2006	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Appli	cation No.	Applicant(s)						
Office Action Summary			17,229	KIM, YOUNG-CH	IAN					
			iner	Art Unit						
			Rahmjoo	2628						
Period fo	The MAILING DATE of this commun or Reply	ication appears o	the cover sheet	with the correspondence ac	ddress					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).										
Status										
1)⊠	Responsive to communication(s) file	ed on <u>28 March 2</u>	00 6 .							
2a)⊠	This action is FINAL. 2b) This action is non-final.									
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is									
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.									
Disposition of Claims										
4)⊠ Claim(s) <u>1-15</u> is/are pending in the application.										
	4a) Of the above claim(s) is/are withdrawn from consideration.									
5)	S) Claim(s) is/are allowed.									
6)⊠	Claim(s) <u>1-15</u> is/are rejected.									
•	Claim(s) is/are objected to.									
8)[8) Claim(s) are subject to restriction and/or election requirement.									
Applicati	on Papers									
9)	The specification is objected to by the	ne Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.										
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).										
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.										
Priority ι	ınder 35 U.S.C. § 119									
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 										
Attachmen 1) Notic 2) Notic	t(s) te of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Internation Disclosure Statement(s) (PTO-1449 or	PTO-948)	4) 🔲 Interviev Paper N	ot received. w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application (PT	ГО-152)					
Paper No(s)/Mail Date 6) Other:										

Art Unit: 2628

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1- 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over King et al (US Patent 5,644,325), hereinafter, King in view of Yamakawa et al (US Patent 5,809,366), hereinafter, Yamakawa.

As per claims 1, 4-5, 7, 11-12 and 14 and as to the broadest reasonable interpretation by examiner, King teaches receiving RGB signals from host see for example figures 10-11; and selecting an R, a G, or a B component of an RGB signal (see for example col. 3 lines 23-27 for the selection of color blue and claims 2 and 3 wherein level select circuit controls the level of each R or G or B independently to control a color mixture) including a video signal as a selected RGB signal see for example column 5 lines 38-40 and setting a region (color key range) of the selected R,G,B signal to be checked see for example column 7 line 25.

However King does not teach detecting a minimum pixel level value in the checked region of the selected R,G,B signal; and comparing the minimum pixel level

Art Unit: 2628

value for the selected R,G,B signal with a predetermined threshold value and checking whether an abnormal R,G,B signal includes an abnormal signal; and displaying on a screen a message indicator indicating whether the selected R,G,B signal; and signal input unit receiving RGB signals, a horizontal and vertical synchronization signal; and a storage unit storing the minimum pixel level value detected in the selected R,G,B signal.

Yamakawa teaches detecting (state detection through determination) a minimum pixel level value in the checked region of the selected R,G,B signal see for example column 14 lines 27-31 for points deviated by more than an allowable range; comparing the minimum pixel level value for the selected R,G,B signal with a predetermined threshold value (previous RGB data or allowable range) and checking whether an abnormal R.G.B signal includes an abnormal signal see for example column 14 lines 35- 38 wherein RGB data is compared with previous RGB data and correction is based on the results of comparison; and displaying on a screen a message indicator (displaying a warning) indicating whether the selected R,G,B signal see for example column 14 lines 27-35 through displaying a warning (a flag generated by the color calibration system) due to deviation by more than an allowable range OR improper reading of data: and signal input unit receiving RGB signals, a horizontal and vertical synchronization signal see for example figures 3-5 for the color calibration system; a storage unit storing the minimum pixel level value detected in the selected R,G,B signal see for example the color calibration system of figures 4-5.

It would have been made obvious to one of ordinary skilled in the art at the time the invention was made to incorporate the teachings of Yamakawa into King to

Art Unit: 2628

perform minimum pixel level detection and comparison with a predetermined threshold value and thereafter displaying of a screen message as to provide a color balance selection method which allows a user to select the color balance relative to the calibrated standard of an image processing device and therefore reproduce colors contained in a specific image chosen by a user and thereby offer an efficient and user friendly device see for example column 2 lines 7-23.

As per claims 2 and 9 Yamakawa teaches setting a flag (warning) which indicates whether the selected R,G,B signal is abnormal when the minimum pixel level value is smaller (deviation by more than an allowable range) than a predetermined threshold value see for example column 14 line 32, and resetting (execute scanning again or repeat the process) the flag when the minimum pixel level value is larger (deviation by more than an allowable range) than the predetermined threshold value see for example column 14 lines 32-33.

As per claim 3 and 10 Yamakawa teaches checking whether a flag indicating whether the selected R,G,B signal is abnormal is set see for example figure 17 for the loop in the flow chart regarding the display warning block 494; checking if a video signal checking function is enabled when the flag is set see for example figure 17 (block 490) for the flow chart regarding color determination (checking) of the colors of the printed frames; and inherently teaches setting how long the message will be displayed and how long a predetermined warning message is displayed, when enabling of the video signal checking function is confirmed see for example column 14 lines 41- 46 through the clock of the color calibration system which reduces the time (time setting for displaying

a message) needed to perform the color balance adjustment along with reducing a load imposed on the processing system.

As per claims 6 and 15 and as to the broadest reasonable interpretation by examiner Yamakawa teaches the controller generates an on-screen-display (OSD) signal (displaying a warning) that enables and disables (the flow chart of figure 17) an R,G,B signal checking function.

As per claim 8 and as per rejection of the independent claims Yamakawa teaches extracting a minimum pixel level value when the pixel level value in the selected R,G,B signal is smaller than the predetermined value see for example figure 21 and column 14 lines 27- 30 for points 530- 533 when there is deviation more than a allowable range.

As per claim 13 and as per rejection of the independent claims Yamakawa teaches a comparator (color calibration system) comparing the minimum pixel level value in the selected R,G,B signal with a minimum pixel level value detected in a previous signal (see for example column 14 line 36 fro comparing RGB data with previous RGB data), and extracts a minimum pixel level value see for example column 14 lines 30- 31 for improper reading or inputting due to deviation by more than an allowable range.

Response to Arguments

Applicant's arguments filed 03/28/06 have been fully considered but they are not persuasive.

As per applicant's remarks on page 7, applicant argues "absent from King is any teaching or suggestion of selecting a component of an RGB signal as recited in the independent claims".

Examiner respectfully disagrees.

King teaches "selecting an R, a G, or a B component of an RGB signal see for example col. 3 lines 23-27 for the selection of color blue and claims 2 and 3 wherein level select circuit controls the level of each R or G or B independently to control a color mixture" which applicant argues as missing.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Art Unit: 2628

Inquiry

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Mike Rahmjoo whose telephone number is 571-

272-7789. The examiner can normally be reached on 8 AM- 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Kee Tung can be reached on 571-272-7794. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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Business Center (EBC) at 866-217-9197 (toll-free).

Mike Rahmjoo

February 17, 2006

Primary Examiner

Page 7